UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,871	05/18/2006	Masayasu Miyata	9319A-001667/US/NP	3631	
	7590 08/11/200 CKEY & PIERCE, P.L		EXAMINER		
P.O. BOX 828		WOJCIECHOWICZ, EDWARD JOSEPH			
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
			2895		
			MAIL DATE	DELIVERY MODE	
			08/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summers	10/579,871	MIYATA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Edward Wojciechowicz	2895			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•				
	— — — — — — — — — — — — — — — — — — —				
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	e merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
	1				
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the c		• •			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4-9-08, 5-18-06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The exact structure of the claimed semiconductor device is not clearly defined.

In claim 1, a complete device is not described. Nor is the description of the insulating film clearly understood. The complete composition of the insulating film is not given. The recitation that this film contains silicon, "at least one kind of element other than silicon", and hydrogen atoms, fails to clearly define the novel, inventive structure.

In addition, the range of absorbance of infrared radiation at a range of wavelengths, coupled with the negative limitation concerning the application of an electric field, does not limit or define the structure of the claimed insulating layer in a way that can be clearly understood.

In claim 2, the structure of the device is not clearly defined. What are the "particular structures" that make up the device? What does it mean to have the absorption of the infrared radiation "derived from" the particular structures?

The claim 5 recitation is unclear as to the meaning of the phrase "each hydrogen atom in at least a part of the hydrogen atoms".

The quantitative variables recited in claims 8-11 are speculative in that a complete semiconductor device structure has not been fully defined.

Claims 13 and 14 fail to further define of limit the claimed structure.

Application/Control Number: 10/579,871 Page 3

Art Unit: 2895

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can

normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Drew Richards can be reached on (571) 272-1736. The fax phone number for the organization where

this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/Edward Wojciechowicz/

Primary Examiner, Art Unit 2895

Edward Wojciechowicz **Primary Examiner**

Art Unit 2895

EW: ew